INDEX

ABSORPTION of fatty acids, adrenalectomy and, 44.
—— of glucose by renal tubules, thyroid hormone and, 699.
Absorption, re-, renal, of amino acids, 535.
——, ——, of glycine and creatine, 156.
Acclimatization to work in hot climates, 168.
Acclimatization. *See* Cold.
——. *See* Heat.
Acid in intestine and pepsin secretion, 708.
ADOLPH, E. F. Do rats thrive when drinking sea water, 25.
Adrenal alterations on filtrate factor-deficient rats, 713.
Adrenalectomy and absorption of fatty acids, 44.
Adrenals and hypophysis in carbohydrate metabolism, 98.
Age and resistance to anoxia, 609.
AIRD, R. B. See GREENBERG, AIRD, BOELTER, CAMPBELL, COHN and MURAYAMA, 47.
ALTHAUSEN, T. L. See EILER, ALTHAUSEN and STOCKHOLM, 699.
Amino acid clearance, renal, in dog, 688.
—— acids, renal reabsorption of, 535.
ANDRUS, W. DEW., J. W. LORD, JR., P. STEFKO and J. A. DINGWALL, III. The effect of saline washings of isolated jejunal loops on gastric secretion, 287.
Anesthesia, barbital, effect of, on renal function and blood pressure, 234.
——, morphine and barbiturate, changes after, 177.
Androgens, transfer of, in parabiotic rats, 230.
Angiotonin, renin-, system in hemorrhagic shock, 499.
Anoxia, age and resistance to, 609.
——, anoxic, effect of, on central nervous system, 291.
——, effect of, on intestinal peristalsis, 119.
——, effect of, on leucocyte count, 299.
——, polycythemia and carrot diet in resistance to, 304.
——, severe, carbohydrate regulation under, 474.
Anterior-pituitary hormones and carbohydrate stores, 452.
Arterial peripheral resistance and cardiac output, 519.
Ascorbic acid excretion, estrogen administration and, 260.
ASHER, R. See KATZ, FRIEDBERG and ASHER, 65.
ASHWORTH, C. T., Z. W. HUTCHESON, W. T. PAYNE and A. W. JESTER. The effect of crystalloidal and protein-containing solutions on the body fluids and circulating plasma proteins, 589.
Atrophy and fibrillation in denervated muscle, 247.
——, muscle, due to denervation and acute inanition, 115.
Atropine and quinidine, effect of, on denervated muscle, 247.
Auricle, turtle, inhibition of, by single induction shocks, 93.
Axons, interaction of, 656.

BAHNSON, H. T. Rôle of the kidneys in the resistance of rats to hemorrhage, 416.
Barbital anesthesia, effect of, on renal function and blood pressure, 234.
Barbiturate anesthesia, morphine and, changes after, 177.
BARBOUR, H. G., E. A. MCKAY and W. P. GRIFFITH. Water shifts in deep hypothermia, 9.
Barometric pressure, low, effect of, on kidney structure, 387.
—— ——, ——, kidney function and, 374.
Basal metabolism of children, 461.
—— —— of mid-western college women, 33.
BAVETTA, L. A. The effect of adrenalectomy on the absorption of the short chain fatty acids and their triglycerides, 44.
BEECHER, H. K. See WILLIAMS and BEECHER, 566.
BELDING, H. S. See ROBINSON, TURRELL, BELDING and HORVATH, 168.
BIDDULPH, C. See SHIPLEY, MEYER and BIDDULPH, 230.
BING, R. J. The effect of vitamin A on some renal functions of the dog, 240.
Bioassay of tissue extracts which lower blood pressure in hypertension, 627.
Bleeding volume, measurement of, and blood substitutes, 420.
Blood cell fragility, increased red, after fat ingestion, 349.

Blood-cerebrospinal fluid barrier and radioactive isotopes, 47.
Blood changes in hemorrhagic shock, 737.
—— circulation, collateral, dynamics of, 726.
—— count, effect of anoxia on, 299.
—— flow changes after morphine and barbiturate anesthesia, 177.
—— lactate, effect of hemorrhage, temperature and diurnal variation on, 125.
——, muscle and liver, insulin and phosphate changes of, 598.
—— plasma volume, diminished, and intravenous gelatin, 636.
—— pressure, effect of vitamins A and D_2 on, 226.
—— —— in hypertension, bioassay of tissue extracts which lower, 627.
—— ——, renal function and, effect of barbital anesthesia on, 234.
Blood pressure. *See* Hypotension.
Blood prothrombin, 212.
—— reactions, effect of sulfonamides on, 483.
—— substitutes, measurement of bleeding volume and, 420.
—— temperature and heart rate, 256.
Body fluids and plasma proteins, response of, to injected substances, 589.
Boelter, M. D. D. See Greenberg, Aird, Boelter, Campbell, Cohn and Murayama, 47.
Borkovic, E. J. See Michael, Looney and Borkovic, 548.
Boron in nutrition of rat, 513.
Boyd, E. M., W. F. Perry and M. E. T. Stevens. The effect of damage to the tracheal mucosa upon the drainage of respiratory tract fluid, 467.
Brain, perfused dog's, metabolism of, 190.
Briggs, A. P. See Hamilton, Briggs and Butler, 578.
Britton, S. W. See Van Middlesworth, Kline and Britton, 474.
Brofman, B. L. See Green, Nickerson, Lewis and Brofman, 177.
Brunn, F. Further studies on the water balance of frogs, 20.
Burn-shock, capillary permeability to horse proteins in, 1.
Buschke, W. See Friedenwald and Buschke, 367.
Butler, R. E. See Hamilton, Briggs and Butler, 578.

Campbell, C. J. See Weiss and Campbell, 616.
Campbell, W. W. See Greenberg, Aird, Boelter, Campbell, Cohn and Murayama, 47.
Capillary permeability to horse proteins in burn-shock, 1.
Carbohydrate metabolism, adrenals and hypophysis in, 98.
—— regulation under severe anoxia, 474.
—— -sparing effect of previous fat feeding, 639.
—— stores, anterior-pituitary hormones and, 452.
Cardiac output and peripheral resistance, 519.
—— —— —— —— —— in hemorrhagic shock, 677.
Cartland, G. F. See Remington, Cartland, Drill and Swingle, 627.
Cederquist, D. See Pittman, Cederquist, Kunerth, Shinkle, Ohlson, Young, Donelson, Wall, McKay, Patton and Kinsman, 33.
Cerebrospinal fluid barrier, blood-, and radioactive isotopes, 47.
Chloride, renal excretion of, in diabetes insipidus, 334.
Circulation, collateral, dynamics of, 726.
Clare, F. B. See Cress, Clare and Gellhorn, 299.
Cohn, W. E. See Greenberg, Aird, Boelter, Campbell, Cohn and Murayama, 47.
Collins, D. A. and A. S. Hamilton. Changes in the renin-angiotonin system in hemorrhagic shock, 499.
Color vision, tests for, and vitamin A, 578.
Corcoran, A. C. and I. H. Page. Effects of anesthetic dosage of pentobarbital sodium on renal function and blood pressure in dogs, 234.
Cosby, R. S. See Green, Cosby and Radzow, 726.
Creatine, glycine and, reabsorption of, 156.
Cress, C. H., F. B. Clare and E. Gellhorn. The effect of anoxic and anemic anoxia on the leucocyte count, 299.
Crider, J. O. See Thomas and Crider, 574.
Cyanide and other substances in action of epinephrine, 367.

DAMERON, J. T. See LITTLE and DAMERON, 636.
D'AMOUR, F. E. See WETZIG and D'AMOUR, 304.
DARROW, C. W. and J. H. PATHMAN. Relation of heart rate to slow waves in the electroencephalogram during overventilation, 583.
DAVEY, H. W. See ELMAN, LISCHER and DAVEY, 737.
DELURY, D. B. See SOLANDT, DELURY and HUNTER, 247.
DE REZENDE, N. See ESSEX and DE REZENDE, 107.
Diabetes insipidus, renal excretion of chloride in, 334.
Diet, carrot, polycythemia and, in resistance to anoxia, 304.
Diets, filtrate factor deficient, adrenal alterations on, 713.
DINGWALL, J. A., III. See ANDRUS, LORD, STEFKO and DINGWALL, 287.
DONELSON, E. See PITTMAN, CEDERQUIST, KUNERTH, SHINKLE, OHLSON, YOUNG, DONELSON, WALL, MCKAY, PATTON and KINSMAN, 33.
DRILL, V. A. See REMINGTON, CARTLAND, DRILL and SWINGLE, 627.
Drosophila, sensitivity of, to oxygen poisoning, 566.
DUNBAR, P. See GOETTSCH, LYTTLE, GRIM and DUNBAR, 688.
DUVAL, A. M. See LEWIS, DUVAL and ILIFF, 461.

EILER, J. J., T. L. ALTHAUSEN and M. STOCKHOLM. The effect of thyroxin on the maximum rate of transfer of glucose and diodrast by the renal tubules, 699.
Electrocardiograms of endo- and epicardial extrasystoles, 148.
Electroencephalogram in overventilation, heart rate and, 583.
ELMAN, R., C. LISCHER and H. W. DAVEY. Red cell volume, plasma albumin and globulin in fatal surgical shock due to repeated hemorrhage, 737.
ELVEHJEM, C. A. See TERESI, HOVE, ELVEHJEM and HART, 513.
——. See WACHTEL, ELVEHJEM and HART, 72.
EMERSON, G. A. See VAN LIERE, NORTHUP, STICKNEY and EMERSON, 119.
Endocardial extrasystoles, electrocardiograms of, 148.
Epicardial extrasystoles, electrocardiograms of, 148.
Epinephrine and frog renal hemodynamics, 221.
——, cyanide and other substances in action of, 367.
Equine gonadotropin in hypophysectomized rats, 561.
ESSEX, H. E. and N. DE REZENDE. Observations on injury and repair of peripheral nerves, 107.
Estrogen administration and ascorbic acid excretion, 260.
EVANS, H. M. See HERRING and EVANS, 452.
EVANS, R. D. See LEBLOND, GROSS, PEACOCK and EVANS, 671.
EVERSOLE, W. J., W. KLEINBERG, R. R. OVERMAN, J. W. REMINGTON and W. W. SWINGLE. The nervous factor in shock induced by muscle trauma in normal dogs, 490.
——. See KLEINBERG, REMINGTON, EVERSOLE, OVERMAN and SWINGLE, 197.
Excretion of ascorbic acid, estrogen administration and, 260.
——, uric acid, and hippuric acid synthesis, 548.
Exophthalmos, water and fat of orbital tissues in, 308.

FAT ingestion, increased red blood cell fragility after, 349.
—— utilization in absence of liver, 639.
——, water and, of orbital tissues in exophthalmos, 308.
Fatty acids, absorption of, adrenalectomy and, 44.
Fibrillation, atrophy and, in denervated muscle, 247.
Food intake, reduced, and resistance to low O_2 tension, 603.
FORSTER, R. P. The effect of epinephrine upon frog renal hemodynamics in the intact animal, 221.
FREEMAN, L. W., A. LOEWY and V. JOHNSON. In vivo hemolysis produced by soap injections, 556.
FRIEDBERG, L. See KATZ, FRIEDBERG and ASHER, 65.
FRIEDENWALD, J. S. and W. BUSCHKE. The effect of cyanide and other metal bind-

ing substances on the pharmacological action of epinephrine, 367.

FRIEDMAN, M. H. F., I. G. PINCUS, J. E. THOMAS and M. E. REHFUSS. Stimulation of pepsin secretion by means of acid in the intestine, 708.

FRIES, E. C. See HELLEBRANDT, FRIES, LARSEN and KELSO, 645.

GASTRIC secretion after injection of pilocarpine, 136.

—— ——, saline washings of jejunal loops and, 287.

Gastric. *See* Stomach.

Gelatin and other solutions, value of, after hemorrhage, 431.

——, intravenous, diminished plasma volume and, 636.

——, plasma and saline in traumatic shock, 197.

GELLHORN, E. See CRESS, CLARE and GELLHORN, 299.

——. See KESSLER, HAILMAN and GELLHORN, 291.

GLASS, H. G., F. F. SNYDER and E. WEBSTER. The rate of decline in resistance to anoxia of rabbits, dogs and guinea pigs from the onset of viability to adult life, 609.

Glucose absorption by renal tubules, thyroid hormone and, 699.

——, isotonic NaCl and, in shock, 65.

——, kidney as source of, 276.

Glycine and creatine, reabsorption of, 156.

GOETTSCH, E., J. D. LYTTLE, W. M. GRIM and P. DUNBAR. The renal amino acid clearance in the normal dog, 688.

Gonadotropin, equine, in hypophysectomized rats, 561.

GRAEF, I. See RALLI and GRAEF, 713.

GREEN, H. D., R. S. COSBY and K. H. RADZOW. Dynamics of collateral circulation, 726.

——, N. D. NICKERSON, R. N. LEWIS and B. L. BROFMAN. Consecutive changes in cutaneous blood flow, temperature, metabolism and hematocrit readings during prolonged anesthesia with morphine and barbital, 177.

GREENBERG, D. M., R. B. AIRD, M. D. D. BOELTER, W. W. CAMPBELL, W. E. COHN and M. M. MURAYAMA. A study with radioactive isotopes of the permeability of the blood-cerebrospinal fluid barrier to ions, 47.

GREENBERG, D. M. See KAPLAN and GREENBERG, 598.

GRIFFITH, W. P. See BARBOUR, MCKAY and GRIFFITH, 9.

GRIM, W. M. See GOETTSCH, LYTTLE, GRIM and DUNBAR, 688.

GROSS, J. See LEBLOND, GROSS, PEACOCK and EVANS, 671.

HAILMAN, H. See KESSLER, HAILMAN and GELLHORN, 291.

HALL, J. F., JR. The effect of sulfonamides on the blood oxygen and carbon dioxide capacity, arterial saturation and blood pigments, 483.

HALPERIN, M. H. See MCFARLAND, HURVICH and HALPERIN, 354.

HAMILTON, A. S. See COLLINS and HAMILTON, 499.

HAMILTON, W. F., A. P. BRIGGS and R. E. BUTLER. The testing of color vision in relation to vitamin A administration, 578.

HANDLEY, C. A., H. M. SWEENEY, Q. SCHERMAN and R. SEVERANCE. Metabolism of the perfused dog's brain, 190.

HARE, K. See HARE, HARE and PHILLIPS, 334.

HARE, R. S., K. HARE and D. M. PHILLIPS. The renal excretion of chloride by the normal and by the diabetes insipidus dog, 334.

HART, E. B. See TERESI, HOVE, ELVEHJEM and HART, 513.

——. See WACHTEL, ELVEHJEM and HART, 72.

HAYES, M. See LANDSTEINER and HAYES, 256.

Heart rate and electroencephalogram in overventilation, 583.

—— ——, blood temperature and, 256.

Heat acclimatization in man, persistence of, 321.

——, dry, NaCl intake and work performance in, 439.

HELLEBRANDT, F. A., E. C. FRIES, E. M. LARSEN and L. E. A. KELSO. The influence of the army pack on postural stability and stance mechanics, 645.

——, B. G. NELSON and E. M. LARSEN. The eccentricity of standing and its cause, 205.

Hematocrit readings, changes in, after morphine and barbiturate anesthesia, 177.
Hemolysis, in vivo, produced by soap injection, 556.
Hemorrhage, rôle of kidneys in resistance to, 416.
——, temperature and dirunal variation, effect of, on blood lactate, 125.
——, value of gelatin and other solutions after, 431.
Hemorrhagic shock, blood changes in, 737.
—— ——, cardiac output and peripheral resistance in, 677.
—— ——, renin-angiotonin system in, 499.
Henschel, A., H. L. Taylor and A. Keys. The persistence of heat acclimatization in man, 321.
——. See Taylor, Henschel, Mickelsen and Keys, 439.
Herring, V. V. and H. M. Evans. Effects of purified antero-pituitary hormones on the carbohydrate stores of hypophysectomized rats, 452.
Hetherington, A. W. The production of hypothalamic obesity in rats already displaying chronic hypopituitarism, 89.
Hines, H. M., J. D. Thomson and B. Lazere. A comparative study of muscle atrophies caused by denervation and acute inanition, 115.
Hippuric acid synthesis, uric acid excretion and, 548.
Hoff, H. E. and L. H. Nahum. A comparison of the configuration in the electrocardiogram of endocardial and epicardial extrasystoles, 148.
Hollander, F. and J. Stein. Mucus, acid and water secretion in the stomach following the injection of pilocarpine, 136.
Hormone, thyroid, and absorption of glucose by renal tubules, 699.
Hormones, anterior-pituitary, and carbohydrate stores, 452.
Horvath, S. M. See Robinson, Turrell, Belding and Horvath, 168.
Houck, C. R. See Selkurt, Talbot and Houck, 260.
Hove, E. See Teresi, Hove, Elvehjem and Hart, 513.
Hunter, J. See Solandt, DeLury and Hunter, 247.
Hurvich, L. M. See McFarland, Hurvich and Halperin, 354.
Hutcheson, Z. W. See Ashworth, Hutcheson, Payne and Jester, 589.
Hypertension, bioassay of tissue extracts which lower blood pressure in, 627.
Hypophysectomized rats, equine gonadotropin in, 561.
—— ——, hypothalamic obesity in, 89.
Hypophysis, adrenals and, in carbohydrate metabolism, 98.
Hypotension, posthemorrhagic, pectin solutions and, 326.
Hypotension. *See* Shock.
Hypothalamic obesity in hypophysectomized rats, 89.
Hypothermia, water shifts in, 9.

Iliff, A. See Lewis, Duval and Iliff, 461.
Indicator yellow, 40.
Inhibition of turtle's atria by single induction shocks, 93.
Insulin and phosphate changes of blood, muscle and liver, 598.
Intestinal peristalsis, effect of anoxia on, 119.
Intestine, acid in, and pepsin secretion, 708.
Isotonic NaCl and glucose in shock, 65.

Jejunal loops, saline washings of, and gastric secretion, 287.
Jester, A. W. See Ashworth, Hutcheson, Payne and Jester, 589.
Johnson, V. See Freeman, Loewy and Johnson, 556.
——. See Longini and Johnson, 349.

Kaplan, N. O. and D. M. Greenberg. Radioactive phosphate as an indicator of the relationship between the phosphate changes of blood, muscle and liver, following the administration of insulin, 598.
Katz, L. N., L. Friedberg and R. Asher. Efficacy of isotonic sodium chloride and glucose solutions in preventing shock following venous occlusion of a limb in the dog, 65.
——, S. Rodbard and J. Meyer. Blood pressure responses of dogs to vitamin A and vitamin D_2, 226.
Kelso, L. E. A. See Hellebrandt, Fries, Larsen and Kelso, 645.

Kessler, M., H. Hailman and E. Gellhorn. Studies on the effect of anoxic anoxia on the central nervous system, 291.

Keys, A. See Henschel, Taylor and Keys, 321.

——. See Taylor, Henschel, Mickelsen and Keys, 439.

Kidney as source of glucose, 276.

—— function, low barometric pressure and, 374.

—— structure, effect of low barometric pressure on, 387.

Kidney. *See* Renal.

Kidneys, rôle of, in resistance to hemorrhage, 416.

Kindred, J. E. The effects of low barometric pressures on the structure of the kidneys of the white rat, 387.

Kinsman, G. M. See Pittman, Cederquist, Kunerth, Shinkle, Ohlson, Young, Donelson, Wall, McKay, Patton and Kinsman, 33.

Kleinberg, W., J. W. Remington, W. J. Eversole, R. R. Overman and W. W. Swingle. The effectiveness of plasma, gelatin and saline transfusions in preventing shock induced by leg muscle trauma and tourniquets, 197.

——. See Eversole, Kleinberg, Overman, Remington and Swingle, 490.

Kline, R. F. See Van Middlesworth, Kline and Britton, 474.

Knowlton, F. P. Inhibition of the turtle's atria by single induction shocks applied directly, 93.

Krause, A. C. Indicator yellow, 40.

Kunerth, B. L. See Pittman, Cederquist, Kunerth, Shinkle, Ohlson, Young, Donelson, Wall, McKay, Patton and Kinsman, 33.

Landsteiner, E. K. and M. Hayes. The effect of temperature of the blood on the heart rate, 256.

Larsen, E. M. See Hellebrandt, Fries, Larsen and Kelso, 645.

——. See Hellebrandt, Nelson and Larsen, 205.

Lawson, H. The measurement of bleeding volume in the dog for studies on blood substitutes, 420.

—— and W. S. Rehm. The relative value of various fluids in replacement of blood lost by hemorrhage, with special reference to the value of gelatin solutions, 431.

Lazere, B. See Hines, Thomson and Lazere, 115.

Leathem, J. H. Action of equine gonadotropin in normal and hypophysectomized immature male rats, 561.

Leblond, C. P., J. Gross, W. Peacock and R. D. Evans. Metabolism of radioiodine in the thyroids of rats exposed to high or low temperatures, 671.

Leiter, S. S. See Netsky and Leiter, 1.

Leucocyte count, effect of anoxia on, 299.

Lewis, R. C., A. M. Duval and A. Iliff. The effect of repeated determinations on the basal metabolism of children, 461.

Lewis, R. N. See Green, Nickerson, Lewis and Brofman, 177.

Lischer, C. See Elman, Lischer and Davey, 737.

Little, J. M. and J. T. Dameron. Plasma retention, urinary excretion and effect upon circulating total red cell volume of intravenous gelatin in dogs with diminished plasma volume, 636.

Liver, blood, muscle and, insulin and phosphate changes of, 598.

——, fat utilization in absence of, 639.

Loewy, A. See Freeman, Loewy and Johnson, 556.

Longini, J. and V. Johnson. Increased red blood cell fragility after fat ingestion, 349.

Looney, J. M. See Michael, Looney and Borkovic, 548.

Lord, J. W., Jr. See Andrus, Lord, Stefko and Dingwall, 287.

Low, F. N. The peripheral visual acuity of 100 subjects, 83.

Lyttle, J. D. See Goettsch, Lyttle, Grim and Dunbar, 688.

Manganese in the rat, physiology of, 72.

McFarland, R. A., L. M. Hurvich and M. H. Halperin. The effect of oxygen deprivation on the relation between stimulus intensity and the latency of visual after-images, 354.

McKay, E. A. See Barbour, McKay and Griffith, 9.

McKay, E. A. See Pittman, Cederquist, Kunerth, Shinkle, Ohlson, Young, Donelson, Wall, McKay, Patton and Kinsman, 33.
Menkin, M. F. See Snodgrass, Rock and Menkin, 394.
Metabolism, basal, of children, 461.
——, ——, of mid-western college women, 33.
——, carbohydrate, adrenals and hypophysis in, 98.
—— changes after morphine and barbiturate anesthesia, 177.
—— of the perfused dog's brain, 190.
——, thyroid, radioactive iodine in study of, 671.
Meyer, J. See Katz, Rodbard and Meyer, 226.
Meyer, R. K. See Shipley, Meyer and Biddulph, 230.
Michael, S. T., J. M. Looney and E. J. Borkovic. The relation between uric acid excretion and hippuric acid synthesis in man, 548.
Mickelsen, O. See Taylor, Henschel, Mickelsen and Keys, 439.
Middleton, S. and C. J. Wiggers. Some effects of pectin solutions during posthemorrhagic hypotension, 326.
——. See Wiggers and Middleton, 677.
Morphine and barbiturate anesthesia, changes after, 177.
Murayama, M. M. See Greenberg, Aird, Boelter, Campbell, Cohn and Murayama, 47.
Muscle and liver, insulin and phosphate changes of blood, 598.
—— atrophy due to denervation and acute inanition, 115.
——, denervated, atrophy and fibrillation in, 247.
—— tension, nerve fiber counts and, after nerve regeneration, 616.
—— trauma, nervous factor in shock induced by, 490.
Muscular contraction, oxidative, phosphate transfer in, 316.

NAHUM, L. H. See Hoff and Nahum, 148.
Nelson, B. G. See Hellebrandt, Nelson and Larsen, 205.
Nerve fiber counts and muscle tension after nerve regeneration, 616.
Nerve regeneration in rat, 616.
—— trunks, interaction of fibers in, 656.
Nerves, peripheral, injury and repair of, 107.
Nervous factor in shock induced by muscle trauma, 490.
—— system, central, effect of anoxic anoxia on, 291.
Netsky, M. G. and S. S. Leiter. Capillary permeability to horse proteins in burn-shock, 1.
Neuromuscular junction, single, 269.
—— transmission in single nerve and muscle fiber, 269.
Nickerson, N. D. See Green, Nickerson, Lewis and Brofman, 177.
Northup, D. W. See Van Liere, Northup, Stickney and Emerson, 119.
Nutrition of rat, boron in, 513.

OBESITY, hypothalamic, in hypophysectomized rats, 89.
Ohlson, M. A. See Pittman, Cederquist, Kunerth, Shinkle, Ohlson, Young, Donelson, Wall, McKay, Patton and Kinsman, 33.
Oster, R. H. See Smith, Oster and Toman, 603.
Overman, R. R. See Eversole, Kleinberg, Overman, Remington and Swingle, 490.
——. See Kleinberg, Remington, Eversole, Overman and Swingle, 197.
Ovulation potentials, validity of, 394.
Oxidative muscular contraction, phosphate transfer in, 316.
Oxygen deprivation and visual after-images, 354.
—— poisoning, sensitivity of Drosophila to, 566.
—— tension, low, thiamine deficiency and resistance to, 603.

PAGE, I. H. See Corcoran and Page, 234.
Pancreatic secretion in response to various stimuli, 574.
Pathman, J. H. See Darrow and Pathman, 583.
Patton, M. B. See Pittman, Cederquist, Kunerth, Shinkle, Ohlson, Young, Donelson, Wall, McKay, Patton and Kinsman, 33.

Payne, W. T. See Ashworth, Hutcheson, Payne and Jester, 589.
Peacock, W. See Leblond, Gross, Peacock and Evans, 671.
Pectin solutions and posthemorrhagic hypotension, 326.
Pepsin secretion, acid in intestine and, 708.
Peripheral resistance, cardiac output and, in hemorrhagic shock, 677.
Perry, W. F. See Boyd, Perry and Stevens, 467.
Phillips, D. M. See Hare, Hare and Phillips, 334
Phosphate changes of blood, muscle and liver, insulin and, 598.
—— transfer in oxidative muscular contraction, 316.
Pilocarpine, gastric secretion after injection of, 136.
Pincus, I. J. See Friedman, Pincus, Thomas and Rehfuss, 708.
Pittman, M. S., D. Cederquist, B. L. Kunerth, B. Shinkle, M. A. Ohlson, C. M. Young, E. Donelson, L. M. Wall, H. McKay, M. B. Patton and G. M. Kinsman. The basal metabolism of mid-western college women, 33.
Pitts, R. F. A comparison of the renal reabsorptive processes for several amino acids, 535.
——. A renal reabsorptive mechanism in the dog common to glycin and creatine, 156.
Pituitary hormones, anterior-, and carbohydrate stores, 452.
Plasma, gelatin and saline in traumatic shock, 197.
—— proteins, response of body fluids and, to injected substances, 589.
—— volume, diminished, and intravenous gelatin, 636.
Poisoning, oxygen, 566.
Polycythemia and carrot diet in resistance to anoxia, 304.
Postural stability and stance under army pack, 645.
Potentials of stomach, positive injury, 720.
Proteins, horse, capillary permeability to, in burn-shock, 1.
Prothrombin, constitution of, 212.

Quick, A. J. On the constitution of prothrombin, 212.
Quinidine, atropine and, effect of, on denervated muscle, 247.

Radioactive iodine in study of thyroid metabolism, 671.
—— isotopes, blood-cerebrospinal fluid barrier and, 47.
—— phosphate following insulin injection, 598.
Radzow, K. H. See Green, Cosby and Radzow, 726.
Ralli, E. P. and I. Graëf. The low incidence of adrenal alterations in black rats on filtrate factor deficient diets, 713.
Red blood cells. *See* Hemolysis.
Rehfuss, M. E. See Friedman, Pincus, Thomas and Rehfuss, 708.
Rehm, W. S. Positive injury potentials of the stomach, 720.
——. See Lawson and Rehm, 431.
Reinecke, R. M. The kidney as a source of glucose in the eviscerated rat, 276.
——. See Roberts, Samuels and Reinecke, 639.
Remington, J. W., G. F. Cartland, V. A. Drill and W. W. Swingle. Purification and bioassay of tissue extracts capable of lowering the blood pressure of hypertensive rats, 627.
——. See Eversole, Kleinberg, Overman, Remington and Swingle, 490.
——. See Kleinberg, Remington, Eversole, Overman and Swingle, 197.
Renal amino acid clearance in dog, 688.
—— excretion of chloride in diabetes insipidus, 334.
—— function and blood pressure, effect of barbital anesthesia on, 234.
—— ——, vitamin A and, 240.
—— hemodynamics, frog, epinephrine and, 221.
—— reabsorption of glycine and creatine, 156.
—— tubules, absorption of glucose by, thyroid hormone and, 699.
Renal. *See* Kidney.
Renin-angiotonin system in hemorrhagic shock, 499.
Respiratory overventilation, heart rate and electroencephalogram in, 583.
—— tract drainage and damaged tracheal mucosa, 467.
Roberts, S., L. T. Samuels and R. M. Reinecke. Previous diet and the apparent utilization of fat in the absence of the liver, 639.

Robinson, S., E. S. Turrell, H. S. Belding and S. M. Horvath. Rapid acclimatization to work in hot climates, 168.
Rock, J. See Snodgrass, Rock and Menkin, 394.
Rodbard, S. See Katz, Rodbard and Meyer, 226.
Rosenblueth, A. The interaction of myelinated fibers in mammalian nerve trunks, 656.
Russell, J. A. The adrenals and hypophysis in the carbohydrate metabolism of the eviscerated rat, 98.

Sacks, J. The absence of phosphate transfer in oxidative muscular contraction, 316.
Saline, plasma, gelatin and, in traumatic shock, 197.
—— washings of jejunal loops and gastric secretion, 287.
Samuels, L. T. See Roberts, Samuels and Reinecke, 639.
Scherman, Q. See Handley, Sweeney, Scherman and Severance, 190.
Secretion, pancreatic, in response to various stimuli, 574.
——, pepsin, acid in intestine and, 708.
Selkurt, E. E., L. J. Talbot and C. R. Houck. The effect of the administration of estrogen on the mechanism of ascorbic acid excretion in the dog, 260.
Severance, R. See Handley, Sweeney, Scherman and Severance, 190.
Shinkle, V. See Pittman, Cederquist, Kunerth, Shinkle, Ohlson, Young, Donelson, Wall, McKay, Patton and Kinsman, 33.
Shipley, E. G., R. K. Meyer and C. Biddulph. The transfer of androgens in parabiotic rats, 230.
Shock, burn-, capillary permeability to horse proteins in, 1.
——, hemorrhagic, blood changes in, 737.
——, ——, cardiac output and peripheral resistance in, 677.
——, ——, renin-angiotonin system in, 499.
—— induced by muscle trauma, nervous factor in, 490.
——, isotonic NaCl and glucose in, 65.
——, traumatic, plasma, gelatin and saline in, 197.
Shock. *See* Hemorrhagic shock.
Shock. *See* Hypotension.
Shock. *See* Nerve shock.
Shock. *See* Surgical shock.
Shock. *See* Traumatic shock.
Silvette, H. Some effects of low barometric pressures on kidney function in the white rat, 374.
Smelser, G. K. Water and fat content of orbital tissues of guinea pigs with experimental exophthalmos produced by extracts of the anterior pituitary gland, 308.
Smith, D. C., R. H. Oster and J. E. P. Toman. The effect of thiamine deficiency and of reduced food intake on resistance to low oxygen tension in the cat, 603.
Snodgrass, J. M., J. Rock and M. F. Menkin. The validity of "ovulation potentials", 394.
Snyder, F. F. See Glass, Snyder and Webster, 609.
Sodium chloride intake and work performance in dry heat, 439.
Solandt, D. Y., D. B. DeLury and J. Hunter. The effect of atropine and quinidine sulphate on atrophy and fibrillation in denervated skeletal muscle, 247.
Standing, eccentricity of, and its cause, 205.
Stefko, P. See Andrus, Lord, Stefko and Dingwall, 287.
Steiman, S. E. Neuromuscular transmission in the single nerve and muscle fiber preparation, 269.
Stein, J. See Hollander and Stein, 136.
Stevens, M. E. T. See Boyd, Perry and Stevens, 467.
Stickney, J. C. See Van Liere, Northup, Stickney and Emerson, 119.
Stockholm, M. See Eiler, Althausen and Stockholm, 699.
Stomach, positive injury potentials of, 720.
Stomach. *See* Gastric.
Sulfonamides, effect of, on blood reactions, 483.
Survival of rats drinking sea water, 25.
Swan, M. M. The effect of severe hemorrhage, seasonal temperature and diurnal variation on blood lactate in the dog, 125.
Sweeney, H. M. See Handley, Sweeney, Scherman and Severance, 190.
Swingle, W. W. See Eversole, Kleinberg, Overman, Remington and Swingle, 490.

SWINGLE, W. W. See KLEINBERG, REMINGTON, EVERSOLE, OVERMAN and SWINGLE, 197.
——. See REMINGTON, CARTLAND, DRILL and SWINGLE, 627.

TALBOT, L. J. See SELKURT, TALBOT and HOUCK, 260.
TAYLOR, H. L., A. HENSCHEL, O. MICKELSEN and A. KEYS. The effect of the sodium chloride intake on the work performance of man during exposure to dry heat and experimental heat exhaustion, 439.
——. See HENSCHEL, TAYLOR and KEYS, 321.
Temperature and diurnal variation, hemorrhage, effect of, on blood lactate, 125.
——, blood, and heart rate, 256.
—— changes after morphine and barbiturate anesthesia, 177.
TERESI, J. D., E. HOVE, C. A. ELVEHJEM and E. B. HART. Further study of boron in the nutrition of the rat, 513.
Thiamine deficiency and resistance to low O_2 tension, 603.
THOMAS, J. E. and J. O. CRIDER. Specific gravity and total nitrogen of pancreatic juice secreted in response to various stimuli, 574.
——. See FRIEDMAN, PINCUS, THOMAS and REHFUSS, 708.
THOMSON, J. D. See HINES, THOMSON and LAZERE, 115.
Thyroid hormone and absorption of glucose by renal tubules, 699.
—— metabolism, radioactive iodine in study of, 671.
Tissue extracts which lower blood pressure in hypertension, bioassay of, 627.
Tissues, orbital, water and fat of, in exophthalmos, 308.
TOMAN, J. E. P. See SMITH, OSTER and TOMAN, 603.
Tracheal mucosa, damaged, respiratory tract drainage and, 467.
Trauma, muscle, nervous factor in shock induced by, 490.
TURRELL, E. S. See ROBINSON, TURRELL, BELDING and HORVATH, 168.
Turtle's atria, inhibition of, by single induction shocks, 93.

URIC acid excretion and hippuric acid synthesis, 548.

VAN LIERE, E. J., D. W. NORTHUP, J. C. STICKNEY and G. A. EMERSON. The effect of anoxia on peristalsis of the small and large intestine, 119.
VAN MIDDLESWORTH, L., R. F. KLINE and S. W. BRITTON. Carbohydrate regulation under severe anoxic conditions, 474.
Vision, color, tests for, and vitamin A, 578.
Visual acuity, peripheral, 83.
—— after-images, oxygen deprivation and, 354.
Vitamin A and renal function, 240.
—— ——, tests for color vision and, 578.
Vitamins A and D_2, effect of, on blood pressure, 226.

WACHTEL, L. W., C. A. ELVEHJEM and E. B. HART. Studies on the physiology of manganese in the rat, 72.
WALL, L. M. See PITTMAN, CEDERQUIST, KUNERTH, SHINKLE, OHLSON, YOUNG, DONELSON, WALL, MCKAY, PATTON and KINSMAN, 33.
Water and fat of orbital tissues in exophthalmos, 308.
—— balance of frogs, 20.
——, sea, rats drinking, 25.
—— shifts in deep hypothermia, 9.
WEBSTER, E. See GLASS, SNYDER and WEBSTER, 609.
WEISS, P. and C. J. CAMPBELL. Nerve fiber counts and muscle tension after nerve regeneration in the rat, 616.
WETZIG, P. and F. E. D'AMOUR. The effects of polycythemia and of a carrot diet on resistance to anoxia, 304.
WIGGERS, C. J. See MIDDLETON and WIGGERS, 326.
WIGGERS, H. C. Cardiac output and total peripheral resistance measurements in experimental dogs, 519.
—— and S. MIDDLETON. Cardiac output and total peripheral resistance in posthemorrhagic hypotention and shock, 677.
WILLIAMS, C. M. and H. K. BEECHER. Sensitivity of Drosophila to poisoning by oxygen, 566.
Work in hot climates, rapid acclimatization to, 168.
—— performance, NaCl intake and, in dry heat, 439.

YOUNG, C. M. See PITTMAN, CEDERQUIST, KUNERTH, SHINKLE, OHLSON, YOUNG, DONELSON, WALL, MCKAY, PATTON and KINSMAN, 33.